

IN THE SPECIFICATION

Please replace the abstract with the following:

Methods and apparatuses for assembling a structure onto a substrate. A method according to one aspect of the invention includes dispensing a slurry onto a substrate wherein the slurry includes a first plurality of elements, each of which is designed to mate with a receptor region provided on the [[said]] substrate and each of which comprises a functional element. Each receptor region is an opening configured to be complimentary to receive one of the functional elements. The method further includes dispensing in a flow having a first direction a slurry onto a substrate, wherein the slurry includes a fluid.

IN THE CLAIMS

1. (withdrawn) A method of assembling a structure onto a substrate, said method comprising:
dispensing a slurry onto said substrate, said slurry comprising a fluid and a first plurality of elements, each of which is designed to mate with a receptor region on said substrate and each of which comprises a functional element;
wherein said slurry further comprises a second plurality of elements which are not designed to mate with a receptor region on said substrate.
2. (withdrawn) A method as in claim 1 wherein said second plurality of elements facilitate movement of said first plurality of elements over said substrate and do not include any functional elements.

3. (withdrawn) A method as in claim 1 wherein said second plurality of elements is added to said slurry after said slurry is dispensed onto said substrate.
4. (withdrawn) A method as in claim 1 wherein said second plurality of elements is added to said slurry before said slurry is dispensed onto said substrate.
5. (withdrawn) A method as in claim 1 wherein each of said second plurality of elements is larger in at least one dimension than each of said first plurality of elements.
6. (withdrawn) A method as in claim 5 wherein each of said second plurality of elements is significantly larger in said one dimension than each of said first plurality of elements.
7. (withdrawn) A method as in claim 6 wherein each of said second plurality of elements is at least ten times larger in said one dimension.
8. (withdrawn) A method as in claim 2 wherein said second plurality of elements facilitate said movement by physically pushing said first plurality of elements on said substrate.
9. (withdrawn) A method as in claim 8 wherein each of said second plurality of elements has at least one dimension which is larger than a receptor dimension of said receptor region.
10. (withdrawn) A method as in claim 9 wherein each of said second plurality of elements has a shape selected from the group consisting of: (a) a sphere; (b) a cylinder; (c) a

polygonal solid and wherein each of said second plurality of elements comprises magnetic material.

11. (withdrawn) A method as in claim 9 wherein each of said second plurality of elements has a shape which is substantially similar to a shape of each of said first plurality of elements.

12. (withdrawn) A method as in claim 1 further comprising exposing a surface of each of said second plurality of elements to a first solvent prior to adding said second plurality of elements to said fluid to create said slurry, wherein said exposing decreases friction between said surface and said substrate.

13. (withdrawn) A method as in claim 12 wherein each of said second plurality of elements is significantly larger in at least one dimension than each of said first plurality of elements.

14-28 (canceled)

29. (withdrawn) A method of assembling a structure onto a substrate, said method comprising:

creating a slurry comprising a fluid and a plurality of elements, each of which is designed to mate with a receptor region on said substrate and each of which comprises a functional element;

projecting said slurry through a nozzle toward said substrate.

30. (Currently Amended) A method of assembling a structure onto a substrate, said method comprising:

dispensing a slurry comprising a first fluid and a plurality of elements, each of which is designed to mate with a receptor region on said substrate and each of which comprises a functional element, wherein said receptor region is an opening configured to be shape complimentary to receive one of said plurality of elements;

projecting a second fluid through a nozzle toward said substrate after the dispensing of the first fluid to deposit the plurality of elements into the receptor regions.

31. (original) A method as in claim 30 wherein said first fluid and said second fluid comprise the same solvent.

32. (original) A method as in claim 30 wherein at least one of said first fluid and said second fluid comprise at least one of a bonding agent and a surfactant.

33. (original) A method as in claim 30 wherein said second fluid is projected toward said substrate while said plurality of elements mates with receptor regions.

34. (original) A method as in claim 30 further comprising:
pushing an excess of said plurality of elements off said substrate after said plurality of elements have had an opportunity to mate with said receptor regions.

35. (original) A method as in claim 34 wherein said pushing comprises one of (1) wiping a surface of said substrate or (2) dispensing a plurality of significantly larger elements which are each significantly larger than each of said plurality of elements.

36. (withdrawn) A method of assembling a structure onto a substrate, said method comprising:

dissolving a bonding agent into a solvent to create a fluid;
dispensing a slurry onto said substrate, said slurry comprising said fluid and a plurality of elements each of which is designed to mate with a receptor region on said substrate and each of which comprises a functional element;
evaporating said solvent after each of said plurality of elements has mated with a corresponding receptor, wherein said bonding agent bonds each of said plurality of elements to said corresponding receptor.

37. (withdrawn) A method for assembling a structure onto a substrate, said method comprising:

dispensing a slurry substantially uniformly over an entire surface of said substrate, said entire surface comprising a plurality of receptor regions, said slurry comprising a fluid and a first plurality of elements each of which is designed to mate with a corresponding one of said plurality of openings and each of which comprises a functional element.